

# WEST Search History

Hide Items

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DATE: Tuesday, March 23, 2004

Hide? Set Name Query

Hit Count

*DB=PGPB,USPT; PLUR=YES; OP=ADJ*

<input type="checkbox"/>	L18	L17 and l12	3
<input type="checkbox"/>	L17	L16 and (protein or enzyme )	3
<input type="checkbox"/>	L16	L15 and (cbh1or cbh2 or eg1or eg2 or eg3 or eg5 or xln1 or xln2)	3
<input type="checkbox"/>	L15	L14 and (vector or plasmid or dna or nucleic acid or nucleotide or polynucleotide)	10
<input type="checkbox"/>	L14	L13 and (filamentous fungi)	10
<input type="checkbox"/>	L13	xylanase secretion sequence or xylanase secretion or xylanase secret\$7	19
<input type="checkbox"/>	L12	L11 or l10 or l9 or l8 or l7 or l6 or l5 or l4 or l3 or l2 or l1	41477
<input type="checkbox"/>	L11	(530/350)!.ccls.	13648
<input type="checkbox"/>	L10	(536/23.2)!.ccls.	10597
<input type="checkbox"/>	L9	(536/23.1)!.ccls.	10172
<input type="checkbox"/>	L8	(435/320.1)!.ccls.	22975
<input type="checkbox"/>	L7	(435/254.6)!.ccls.	74
<input type="checkbox"/>	L6	(435/254.11)!.ccls.	1355
<input type="checkbox"/>	L5	(435/254.1)!.ccls.	707
<input type="checkbox"/>	L4	(435/209)!.ccls.	425
<input type="checkbox"/>	L3	(435/183)!.ccls.	4442
<input type="checkbox"/>	L2	(435/183)!.ccls.	4442
<input type="checkbox"/>	L1	(435/69.1)!.ccls.	17110

END OF SEARCH HISTORY

# Hit List

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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6635464 B1

Using default format because multiple data bases are involved.

L18: Entry 1 of 3

File: USPT

Oct 21, 2003

US-PAT-NO: 6635464

DOCUMENT-IDENTIFIER: US 6635464 B1

TITLE: Xylanases, genes encoding them, and uses thereof

DATE-ISSUED: October 21, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Paloheimo; Marja	Vantaa			FI
Hakola; Satu	Perttula			FI
Mantyla; Arja	Helsinki			FI
Vehmaanpera; Jari	Klaukkala			FI
Lantto; Raija	Klaukkala			FI
Lahtinen; Tarja	Vantaa			FI
Fagerstrom; Richard	Espoo			FI
Suominen; Pirkko	Helsinki			FI

US-CL-CURRENT: [435/200](#); [435/183](#), [435/252.3](#), [435/254.11](#), [435/254.3](#), [435/254.6](#), [435/320.1](#), [435/69.1](#), [536/23.2](#), [536/23.7](#), [536/23.74](#)

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Fwd Refs</a>	<a href="#">Bkwd Refs</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 2. Document ID: US 6228629 B1

L18: Entry 2 of 3

File: USPT

May 8, 2001

US-PAT-NO: 6228629

DOCUMENT-IDENTIFIER: US 6228629 B1

**\*\* See image for [Certificate of Correction](#) \*\***

TITLE: Xylanases, genes encoding them, and uses thereof

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Fwd Refs</a>	<a href="#">Bkwd Refs</a>	<a href="#">Claims</a>	<a href="#">KWC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 3. Document ID: US 6015703 A

L18: Entry 3 of 3

File: USPT

Jan 18, 2000

US-PAT-NO: 6015703

DOCUMENT-IDENTIFIER: US 6015703 A

TITLE: Genetic constructs and genetically modified microbes for enhanced production of beta-

=> d full his

:- (FILE 'HOME' ENTERED AT 11:13:14 ON 23 MAR 2004)

FILE 'HCAPLUS' ENTERED AT 11:16:56 ON 23 MAR 2004

E XYLANASE SECRETION SEQUENCE/CT

E XYLANASE (L) SECRETION

E XYLANASE/CT

E E3+ALL

L1 324 SEA ABB=ON PLU=ON XYLANASE (L) (SECRET?)

L2 72 SEA ABB=ON PLU=ON L1 (L) (VECTOR OR PLASMID OR DNA OR  
NUCLEIC ACID OR NUCLEOTIDE OR POLYNUCLEOTIDE)

D TI 1

E FILAMENTOUS FUNGI/CT

E E3+ALL

L3 2 SEA ABB=ON PLU=ON L2 (L) (FILAMENTOUS FUNGI OR (FUNGI (L)

=> d ibib ab 1

L3. ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:517565 HCAPLUS  
DOCUMENT NUMBER: 127:202072  
TITLE: Production and secretion of proteins of bacterial origin in filamentous fungi  
INVENTOR(S): Mantyla, Arja; Paloheimo, Marja; Lantto, Raija; Fagerstrom, Richard; Lahtinen, Tarja; Suominen, Pirkko; Vehmaanpera, Jari  
PATENT ASSIGNEE(S): Alko Group Ltd., Finland; Mantyla, Arja; Paloheimo, Marja; Lantto, Raija; Fagerstrom, Richard; Lahtinen, Tarja; Suominen, Pirkko; Vehmaanpera, Jari  
SOURCE: PCT Int. Appl., 127 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 4  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9727306	A1	19970731	WO 1997-FI37	19970124
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6300114	B1	20011009	US 1996-590563	19960126
AU 9715477	A1	19970820	AU 1997-15477	19970124
EP 876494	A1	19981111	EP 1997-901640	19970124
R: BE, CH, DE, DK, ES, FR, LI, NL, SE, PT, IE, FI				
US 2003148453	A1	20030807	US 2002-286993	20020813
PRIORITY APPLN. INFO.:				
			US 1996-590563	A 19960126
			US 1994-282001	B2 19940729
			US 1994-332412	B2 19941031
			US 1995-468812	A2 19950606
			WO 1997-FI37	W 19970124
			US 1998-120804	B1 19980723

AB Described is an improved production of bacterial proteins in filamentous fungus, e.g. in Trichoderma and Aspergillus. The improvement is achieved by constructing expression vectors, which comprise the bacterial protein encoding DNA sequences fused in frame with a DNA sequence encoding a filamentous fungus secreted protein or one or more functional domains of the protein. Filamentous fungus hosts transformed with such expression vectors secrete the desired proteins or enzymes, especially xylanases or cellulases originating from bacteria or more preferably from actinomycetes into the culture medium of the host. The desired proteins or enzymes can be used directly from the culture medium after separation of host cells or recovered and treated using down-stream processes, which are appropriate for the resp. application. Xylanases or cellulases from actinomycetes produced using the above expression vectors are most suitable for treating plant derived materials, e.g. in pulp and paper industries.

=> d ibib ab 2

L3 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1993:464567 HCAPLUS  
DOCUMENT NUMBER: 119:64567  
TITLE: Cloning and structural organization of a xylanase-encoding gene from Penicillium chrysogenum  
AUTHOR(S): Haas, Hubertus; Friedlin, Ernst; Stoeffler, Georg; Redl, Bernhard  
CORPORATE SOURCE: Med. Fak., Univ. Innsbruck, Innsbruck, A-6020, Austria  
SOURCE: Gene (1993), 126(2), 237-42

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The filamentous fungus, *P. chrysogenum*, is able to grow on xylan as a sole carbon source. Under these conditions, high levels of a **xylanase** (XYLP) are **secreted** into the medium. After purification and characterization of this enzyme, both the encoding cDNA and the genomic sequence were isolated by using oligodeoxyribonucleotides derived from partial amino acid (aa) sequences of the purified enzyme. The gene is .apprx.1.6 kb in length, and comparison of the **nucleotide** (nt) sequence of the genomic and the cDNA clone revealed the presence of 10 exons and 9 introns. All intron/exon splice junctions exactly follow the GT/AG rule, except for the 7th intron which shows atypical AT/AC splice sites. The immediate 5'-flanking region of the first exon contains one putative CCAAT consensus sequence and a perfect TATA box. Primer extension anal. revealed 2 transcription start points located 38 and 34 nt upstream from the ATG start codon. A sequence of 23 aa representing a typical signal peptide is present at the N-terminus of the deduced aa sequence. Northern blot anal. of total cellular RNA indicated that xylP encodes a 1.3-kb transcript which is induced by xylan. The aa sequence of XYLP shows considerable homol. to high-Mr acidic **xylanases** (Xln) and cellulases from different bacteria, yeasts, and **fungi**.

'=> d full his

(FILE 'HOME' ENTERED AT 11:25:59 ON 23 MAR 2004)

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,  
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT,  
CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DISSABS, DGENE,  
DRUGB, DRUGMONOG2, IMSDRUGNEWS, DRUGU, IMSRESEARCH, ..' ENTERED AT  
11:26:18 ON 23 MAR 2004

L1	3263	SEA	ABB=ON	PLU=ON	XYLANASE (L) SECRET?
L2	1464	SEA	ABB=ON	PLU=ON	L1 (L) (VECTOR OR PLASMID OR DNA OR NUCLEIC ACID OR NUCLEOTIDE OR POLYNUCLEOTIDE)
L3	363	SEA	ABB=ON	PLU=ON	L2 (L) (FILAMENTOUS FUNGI OR (FUNGI (L) FILAMENTOUS))
L4	336	DUP	REM	L3	(27 DUPLICATES REMOVED) D TI 1 D TI 2
L5	360	SEA	ABB=ON	PLU=ON	L3 (L) SEQUENCE
L6	47	SEA	ABB=ON	PLU=ON	L4 AND PY<1999
L7	47	DUP	REM	L6	(0 DUPLICATES REMOVED)

=> d 1

L7 ANSWER 1 OF 47 USPATFULL on STN  
AN 2003:176299 USPATFULL  
TI Xylanase production  
IN van Gorcom, Robert F. M., Delft, NETHERLANDS  
Hessing, Johanna G. M., Delft, NETHERLANDS  
Maat, Jan, Monster, NETHERLANDS  
Roza, Martinus, Strijen, NETHERLANDS  
Verbakel, Johannes Maria A., Maasland, NETHERLANDS  
PA Quest International, B.V., Naarden, NETHERLANDS (non-U.S. corporation)  
PI US 6586209 B1 20030701  
WO 9119782 19911226 <--  
AI US 1993-955726 19930218 (7)  
WO 1991-EP1135 19910618  
PRAI NL 1990-1388 19900619  
DT Utility  
FS GRANTED  
LN.CNT 2260  
INCL INCLM: 435/069.200  
INCLS: 435/069.100; 435/203.000; 435/209.000; 435/252.300; 435/325.000;  
536/023.740; 536/023.200; 530/324.000; 426/549.000; 426/592.000;  
426/660.000; 426/656.000; 426/496.000  
NCL NCLM: 435/069.200  
NCLS: 426/496.000; 426/549.000; 426/592.000; 426/656.000; 426/660.000;  
435/069.100; 435/203.000; 435/209.000; 435/252.300; 435/325.000;  
530/324.000; 536/023.200; 536/023.740  
IC [7]  
ICM: C12N015-09  
ICS: C12N009-30; C12N009-42; C12N001-22  
EXF 536/23.2; 536/23.74; 435/69.1; 435/201; 435/203; 435/252.3; 435/252.31;  
435/254.2; 435/254.3; 435/254.6; 435/254.23; 435/254.21; 435/209;  
435/69.2; 435/325; 426/549; 426/656; 426/496; 426/660; 426/592; 530/324  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 1-47

L7 ANSWER 1 OF 47 USPATFULL on STN  
AN 2003:176299 USPATFULL  
TI Xylanase production  
IN van Gorcom, Robert F. M., Delft, NETHERLANDS  
Hessing, Johanna G. M., Delft, NETHERLANDS  
Maat, Jan, Monster, NETHERLANDS  
Roza, Martinus, Strijen, NETHERLANDS  
Verbakel, Johannes Maria A., Maasland, NETHERLANDS  
PA Quest International, B.V., Naarden, NETHERLANDS (non-U.S. corporation)  
PI US 6586209 B1 20030701  
WO 9119782 19911226 <--  
AI US 1993-955726 19930218 (7)  
WO 1991-EP1135 19910618  
PRAI NL 1990-1388 19900619  
DT Utility  
FS GRANTED  
LN.CNT 2260  
INCL INCLM: 435/069.200  
INCLS: 435/069.100; 435/203.000; 435/209.000; 435/252.300; 435/325.000;  
536/023.740; 536/023.200; 530/324.000; 426/549.000; 426/592.000;  
426/660.000; 426/656.000; 426/496.000  
NCL NCLM: 435/069.200  
NCLS: 426/496.000; 426/549.000; 426/592.000; 426/656.000; 426/660.000;  
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530/324.000; 536/023.200; 536/023.740  
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ICM: C12N015-09  
ICS: C12N009-30; C12N009-42; C12N001-22  
EXF 536/23.2; 536/23.74; 435/69.1; 435/201; 435/203; 435/252.3; 435/252.31;  
435/254.2; 435/254.3; 435/254.6; 435/254.23; 435/254.21; 435/209;

435/69.2; 435/325; 426/549; 426/656; 426/496; 426/660; 426/592; 530/324  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 47 USPATFULL on STN  
AN 2003:53674 USPATFULL  
TI Expression element  
IN Rasmussen, Preben, Kirke Hyllinge, DENMARK  
PA Danisco A/S, Copenhagen, DENMARK (non-U.S. corporation)  
PI US 6524816 B1 20030225  
WO 9838321 19980903 <--  
AI US 1999-367891 19991203 (9)  
WO 1998-IB312 19980302  
19991203 PCT 371 date  
PRAI GB 1997-4157 19970228  
DT Utility  
FS GRANTED  
LN.CNT 1769  
INCL INCLM: 435/069.100  
INCLS: 435/254.100; 435/410.000; 536/024.100  
NCL NCLM: 435/069.100  
NCLS: 435/254.100; 435/410.000; 536/024.100  
IC [7]  
ICM: C12P021-00  
ICS: C12N001-15; C12N005-00; C07H021-04  
EXF 435/69.1; 435/254.1; 435/410; 536/24.1  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 47 USPATFULL on STN  
AN 2002:201869 USPATFULL  
TI Gene conversion as a tool for the construction of recombinant industrial  
filamentous fungi  
IN Selten, Gerardus Cornelis Maria, Sterrenweg 81, 2651 HZ Berkel EN  
Rodenrijs, NETHERLANDS  
Swinkels, Bart Willem, Schutterstraat 5, 2611 MX Delft, NETHERLANDS  
Bovenberg, Roelof Ary Lans, 's-Gravenweg 121, 3062 ZD Rotterdam,  
NETHERLANDS  
PI US 6432672 B1 20020813  
WO 9846772 19981022 <--  
AI US 2000-402631 20000124 (9)  
WO 1998-EP2070 19980409  
20000124 PCT 371 date  
PRAI EP 1997-201091 19970411  
DT Utility  
FS GRANTED  
LN.CNT 2606  
INCL INCLM: 435/069.100  
INCLS: 435/254.110; 435/254.300; 435/254.400; 435/254.500; 435/254.600;  
435/254.700; 435/254.800; 435/254.900; 435/477.000  
NCL NCLM: 435/069.100  
NCLS: 435/254.110; 435/254.300; 435/254.400; 435/254.500; 435/254.600;  
435/254.700; 435/254.800; 435/254.900; 435/477.000  
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ICM: C12P021-02  
ICS: C12N001-15; C12N015-80  
EXF 435/483; 435/254.1; 435/254.3-254.9; 435/471; 435/69.1; 435/254.11;  
435/477  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 47 USPATFULL on STN  
AN 2001:136401 USPATFULL  
TI Regulatory sequence of cellulase cbh1 genes originating in trichoderma  
viride and system for mass-producing proteins or peptides therewith  
IN Watanabe, Manabu, Odawara, Japan  
Moriya, Tatsuki, Odawara, Japan  
Aoyagi, Kaoru, Odawara, Japan  
Sumida, Naomi, Odawara, Japan  
Murakami, Takeshi, Odawara, Japan  
PA Meiji Seika Kaisha, Ltd., Tokyo, Japan (non-U.S. corporation)  
PI US 6277596 B1 20010821



WO 9811239 19980319 <--

AI US 1999-254733 19990507 (9)  
 WO 1997-JP3268 19970916  
 19990507 PCT 371 date  
 19990507 PCT 102(e) date

PRAI JP 1996-243695 19960913  
 DT Utility  
 FS GRANTED  
 LN.CNT 1192

INCL INCLM: 435/069.100  
 INCLS: 435/252.300; 435/254.600; 435/320.100; 536/024.100

NCL NCLM: 435/069.100  
 NCLS: 435/252.300; 435/254.600; 435/320.100; 536/024.100

IC [7]  
 ICM: C12P021-06  
 ICS: C12N009-00; C12N001-20; C12N015-00

EXF 435/177.12; 435/200; 435/263; 435/264; 435/277; 435/278; 435/325;  
 435/320.1; 435/69.1; 435/254.3; 435/252.3; 435/254.6; 536/23.2;  
 536/24.3; 536/24.1

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 47 USPATFULL on STN  
 AN 2001:97651 USPATFULL  
 TI Recombinant hexose oxidase, a method of producing same and use of such  
 enzyme  
 IN Stougaard, Peter, Skibby, Denmark  
 Hansen, Ole Cai, Copenhagen, Denmark  
 PA Bioteknologisk Institut, Denmark (non-U.S. corporation)  
 PI US 6251626 B1 20010626  
 WO 9640935 19961219 <--

AI US 1996-669304 19960911 (8)  
 WO 1996-DK238 19960604  
 19960911 PCT 371 date  
 19960911 PCT 102(e) date

RLI Continuation-in-part of Ser. No. US 1995-476910, filed on 7 Jun 1995,  
 now abandoned  
 DT Utility  
 FS GRANTED  
 LN.CNT 2736

INCL INCLM: 435/069.100  
 INCLS: 435/069.700; 435/252.300; 435/190.000; 435/320.100; 426/019.000;  
 536/023.200; 536/023.400

NCL NCLM: 435/069.100  
 NCLS: 426/019.000; 435/069.700; 435/190.000; 435/252.300; 435/320.100;  
 536/023.200; 536/023.400

IC [7]  
 ICM: C12N009-04  
 ICS: C12N015-53; C12N015-74; C12N015-79

EXF 435/69.1; 435/189; 435/192; 435/252.3; 435/252.33; 435/254.2;  
 435/254.21; 435/254.23; 435/320.1; 536/23.2; 426/52; 426/523; 426/549;  
 426/524

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 47 USPATFULL on STN  
 AN 2001:10723 USPATFULL  
 TI Method to isolate mutants and to clone the complementing gene  
 IN De Graaff, Leendert Hendrik, Oosterbeek, Netherlands  
 Van Den Broeck, Henrietta Catharina, Bennekom, Netherlands  
 Visser, Jacob, Wageningen, Netherlands  
 PA Danisco Ingredients A/S (Danisco A/S), Brabrand, Denmark (non-U.S.  
 corporation)  
 PI US 6177261 B1 20010123  
 WO 9700962 19970109 <--

AI US 1997-981729 19971223 (8)  
 WO 1996-NL259 19960624  
 19971223 PCT 371 date  
 19971223 PCT 102(e) date

PRAI EP 1995-20107 19950623  
 EP 1995-202346 19950830

DT Utility  
 FS Granted  
 LN.CNT 2466  
 INCL INCLM: 435/069.100  
 INCLS: 435/254.110; 435/320.100; 536/023.740; 536/024.100  
 NCL NCLM: 435/069.100  
 NCLS: 435/254.110; 435/320.100; 536/023.740; 536/024.100  
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 ICM: C12N001-15  
 ICS: C12N015-11; C12N015-80; C12P021-06  
 EXF 435/69.1; 435/252.3; 435/254.11; 435/254.2; 435/254.21; 435/254.3;  
 435/254.5; 435/254.6; 435/254.7; 435/320.1; 435/410; 536/23.1; 536/23.2;  
 536/23.5; 536/23.74; 536/24.1  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 47 USPATFULL on STN  
 AN 2000:77218 USPATFULL  
 TI Endo  $\beta$ -1,4-glucanase from Aspergillus  
 IN Madrid, Susan, Vedbaek, Denmark  
 Rasmussen, Preben, Lyngby, Denmark  
 Baruch, Anita, Glostrup, Denmark  
 PA Danisco A/S, Copenhagen, Denmark (non-U.S. corporation)  
 PI US 6077702 20000620  
 WO 9629415 19960926  
 AI US 1998-913264 19980406 (8)  
 WO 1996-EP1008 19960311  
 19980406 PCT 371 date  
 19980406 PCT 102(e) date  
 PRAI GB 1995-5475 19950317

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DT Utility  
 FS Granted  
 LN.CNT 1490  
 INCL INCLM: 435/209.000  
 INCLS: 435/195.000; 435/277.000; 435/320.100; 435/276.000; 536/023.200  
 NCL NCLM: 435/209.000  
 NCLS: 435/195.000; 435/276.000; 435/277.000; 435/320.100; 536/023.200  
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 ICM: C12N009-42  
 ICS: C12N009-14; D21C001-00; C13J007-00  
 EXF 435/209; 435/195; 435/277; 435/276; 435/320.1; 536/23.2  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 8 OF 47 USPATFULL on STN  
 AN 1999:75548 USPATFULL  
 TI Enzyme and enzyme preparation with endoglucanase activity  
 IN Schulein, Martin, Copenhagen .O slashed., Denmark  
 Oxenb.o slashed.ll, Karen Margrethe, Charlottenlund, Denmark  
 Andersen, Lene Nonboe, Birker.o slashed.d, Denmark  
 Lassen, S.o slashed.ren Flensted, Copenhagen .O slashed., Denmark  
 Kauppinen, Markus Sakari, Copenhagen N, Denmark  
 Nielsen, Jack Bech, Hellerup, Denmark  
 PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
 PI US 5919691 19990706  
 WO 9611262 19960418  
 AI US 1997-809763 19970320 (8)  
 WO 1995-DK400 19951006  
 19970326 PCT 371 date  
 19970326 PCT 102(e) date  
 PRAI DK 1994-1160 19941006  
 DK 1994-1296 19941111

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DT Utility  
 FS Granted  
 LN.CNT 2395  
 INCL INCLM: 435/209.000  
 INCLS: 435/255.200; 435/256.100; 435/256.700; 435/320.100; 536/023.200  
 NCL NCLM: 435/209.000  
 NCLS: 435/255.200; 435/256.100; 435/256.700; 435/320.100; 536/023.200  
 IC [6]  
 ICM: C12N009-42

ICS: C12N015-55

EXF 435/320.11; 435/255.2; 435/256.1; 435/256.7; 435/209; 536/27.2  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 9 OF 47 USPATFULL on STN

AN 1999:21948 USPATFULL

TI Enzyme with endo-1,3(4)- $\beta$ - Glucanase activity

IN Kofod, Lene Venke, Upperl.o slashed.se, Denmark

Andersen, Lene Nonboe, Birker.o slashed.d, Denmark

Kauppinen, Markus Sakari, K.o slashed.benhavn N, Denmark

Christgau, Stephan, Gentofte, Denmark

Dalb.o slashed.ge, Henrik, Virum, Denmark

Olsen, Hans Sejr, Holte, Denmark

Breinholt, Jens, Bagsv.ae buttet.rd, Denmark

PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

PI US 5871966 19990216

WO 9531533 19951123

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AI US 1996-737526 19961108 (8)

WO 1995-DK188 19950511

19961212 PCT 371 date

19961216 PCT 102(e) date

PRAI DK 1994-546 19940511

DT Utility

FS Granted

LN.CNT 1299

INCL INCLM: 435/074.000

INCLS: 435/200.000; 435/201.000; 435/274.000; 435/277.000

NCL NCLM: 435/074.000

NCLS: 435/200.000; 435/201.000; 435/274.000; 435/277.000

IC [6]

ICM: C12P019-44

ICS: C12N009-24; C12N009-20; C08B001-00

EXF 435/200; 435/201; 435/209; 435/274; 435/277; 435/74

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 10 OF 47 USPATFULL on STN

AN 1999:12794 USPATFULL

TI Cloning and expression of DNA molecules encoding arabinan-degrading  
enzymes of fungal origin

IN Van Heuvel, Margaretha, Leiden, Netherlands

Bakhuis, Janna Gardina, Delft, Netherlands

Coutel, Yves, Ennevelin, France

Harder, Abraham, Berkel en Rodenrijs, Netherlands

De Graaff, Leendert Hendrick, Oosterbeek, Netherlands

Flipphi, Michel Johannes Anthonie, Wageningen, Netherlands

Van Der Veen, Peter, Wageningen, Netherlands

Visser, Jacob, Wageningen, Netherlands

Andreoli, Peter Michael, Bellegem-Kortrijk, Netherlands

PA Gist-brocades, N.V., Netherlands (non-U.S. corporation)

PI US 5863783 19990126

WO 9217592 19921018

<--

AI US 1992-952853 19921125 (7)

WO 1991-NL9200056 19910327

19921125 PCT 371 date

19921125 PCT 102(e) date

PRAI EP 1991-200720 19910327

DT Utility

FS Granted

LN.CNT 3157

INCL INCLM: 435/200.000

INCLS: 435/069.100; 435/072.000; 435/252.300; 435/252.310; 435/172.300;

435/254.110; 435/254.210; 435/254.300; 435/254.600; 435/320.100;

536/023.200; 935/014.000; 935/028.000; 935/068.000; 935/069.000

NCL NCLM: 435/200.000

NCLS: 435/069.100; 435/072.000; 435/252.300; 435/252.310; 435/254.110;

435/254.210; 435/254.300; 435/254.600; 435/320.100; 536/023.200

IC [6]

ICM: C12N009-24

ICS: C12N015-56; C12N015-74; C12N015-80

EXF 435/69.1; 435/200; 435/252.3; 435/320.1; 435/254.3; 435/72; 435/252.31;  
435/254.21; 435/254.6; 435/172.3; 536/23.2

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 11 OF 47 USPATFULL on STN  
AN 1998:162318 USPATFULL  
TI Mannanase enzymes, genes coding for them and a method for isolating the  
genes, as well as a process for bleaching of lignocellulosic pulp  
IN Buchert, Johanna, Espoo, Finland  
Siika-aho, Matti, Helsinki, Finland  
Viikari, Liisa, Helsinki, Finland  
Penttila, Merja, Helsinki, Finland  
Saloheimo, Anu, Helsinki, Finland  
Ranua, Marjatta, Lohja, Finland  
PA Rohm Enzyme Finland OY, Rajamaki, Finland (non-U.S. corporation)  
PI US 5854047 19981229 <--  
AI US 1997-911020 19970813 (8)  
RLI Continuation of Ser. No. US 1994-341568, filed on 22 Nov 1994, now  
patented, Pat. No. US 5661021  
PRAI FI 1992-2373 19920522  
FI 1993-1193 19930317  
DT Utility  
FS Granted  
LN.CNT 988  
INCL INCLM: 435/209.000  
INCLS: 435/252.300; 435/254.110; 435/254.600; 435/256.700; 435/256.800  
NCL NCLM: 435/209.000  
NCLS: 435/252.300; 435/254.110; 435/254.600; 435/256.700; 435/256.800  
IC [6]  
ICM: C12N009-42  
ICS: C12N001-20; C12N001-14; C12N001-16  
EXF 435/209; 435/252.3; 435/254.11; 435/254.6; 435/256.7; 435/256.8  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 12 OF 47 USPATFULL on STN  
AN 1998:161978 USPATFULL  
TI Penicillium purpurogenum mutanases and nucleic acids encoding same  
IN Berka, Randy M., Davis, CA, United States  
Christgau, Stephan, Gentofte, Denmark  
Halkier, Torben, Frederiksberg C, Denmark  
Shuster, Jeff, Davis, CA, United States  
Fuglsang, Claus Crone, Copenhagen, Denmark  
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
Novo Nordisk Biotech, Inc., Davis, CA, United States (U.S. corporation)  
PI US 5853702 19981229 <--  
AI US 1997-797366 19970207 (8)  
RLI Continuation-in-part of Ser. No. US 1996-598881, filed on 9 Feb 1996,  
now abandoned  
DT Utility  
FS Granted  
LN.CNT 1917  
INCL INCLM: 424/050.000  
INCLS: 424/094.610; 435/200.000; 435/252.300; 435/320.100; 435/933.000;  
530/350.000; 536/023.200  
NCL NCLM: 424/050.000  
NCLS: 424/094.610; 435/200.000; 435/252.300; 435/320.100; 435/933.000;  
530/350.000; 536/023.200  
IC [6]  
ICM: A61K001-28  
ICS: C12N009-24; C07K001-00; C07H021-04  
EXF 424/50; 424/94.61; 435/200; 435/933; 435/69.1; 435/252.3; 435/320.1;  
536/23.2; 530/350  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 13 OF 47 USPATFULL on STN  
AN 1998:157168 USPATFULL  
TI Arabinoxylan degrading enzymes  
IN Van Der Wouw, Monique Josina Andrea, Delft, Netherlands  
Van Ooijen, Albert Johannes Joseph, Voorburg, Netherlands

Gielkens, Marcus Matheus Catharina, Wageningen, Netherlands  
De Graaff, Leendert Hendrik, Oosterbeek, Netherlands  
Visser, Jacob, Wageningen, Netherlands  
PA Gist-brocades, B.V., Netherlands (non-U.S. corporation)  
PI US 5849559 19981215 <--  
WO 9606935 19960307 <--  
AI US 1996-637763 19960805 (8)  
WO 1995-EP3395 19950828  
19960805 PCT 371 date  
19960805 PCT 102(e) date  
PRAI EP 1994-202442 19940826  
DT Utility  
FS Granted  
LN.CNT 1897  
INCL INCLM: 435/209.000  
INCLS: 435/252.300; 435/254.300; 435/320.100; 435/913.000; 435/917.000;  
536/023.200; 536/024.100  
NCL NCLM: 435/209.000  
NCLS: 435/252.300; 435/254.300; 435/320.100; 435/913.000; 435/917.000;  
536/023.200; 536/024.100  
IC [6]  
ICM: C12N009-42  
ICS: C12N001-14; C12N001-00; C07H021-04  
EXF 435/209; 435/252.3; 435/254.3; 435/320.1; 435/913; 435/917; 536/23.2;  
536/24.1  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 14 OF 47 USPATFULL on STN  
AN 1998:143919 USPATFULL  
TI Enzyme preparations and methods for their production  
IN Suominen, Pirkko, Helsinki, Finland  
Nevalainen, Helena, North Epping, Australia  
Saarelainen, Ritva, Helsinki, Finland  
Paloheimo, Marja, Helsinki, Finland  
Fagerstrom, Richard, Espoo, Finland  
PA Alko-Yhtiöt Oy, Helsinki, Finland (non-U.S. corporation)  
PI US 5837515 19981117 <--  
AI US 1993-121436 19930916 (8)  
RLI Continuation-in-part of Ser. No. US 1993-78478, filed on 18 Jun 1993,  
now abandoned which is a continuation-in-part of Ser. No. US  
1992-889893, filed on 29 May 1992, now abandoned which is a  
continuation-in-part of Ser. No. US 1990-524308, filed on 16 May 1990,  
now patented, Pat. No. US 5298405  
DT Utility  
FS Granted  
LN.CNT 2886  
INCL INCLM: 435/200.000  
INCLS: 435/252.300; 435/254.110; 435/254.600; 435/320.100; 435/325.000;  
536/023.200; 536/023.740  
NCL NCLM: 435/200.000  
NCLS: 435/252.300; 435/254.110; 435/254.600; 435/320.100; 435/325.000;  
536/023.200; 536/023.740  
IC [6]  
ICM: C12N001-21  
ICS: C12N009-24; C12N015-56; C12N015-63  
EXF 536/23.74; 536/23.2; 435/320.1; 435/252.3; 435/240.2; 435/254.6;  
435/254.1; 435/200; 435/254.11; 435/325  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 15 OF 47 USPATFULL on STN  
AN 1998:138722 USPATFULL  
TI Glucose oxidases obtained from a cladosporium  
IN Oxenb.o slashed.11, Karen M., Charlottenlund, Denmark  
Si, Joan Qi, Laufen, Switzerland  
Aagaard, Jesper, Lyngby, Denmark  
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
PI US 5834280 19981110 <--  
AI US 1996-746283 19961107 (8)  
RLI Continuation-in-part of Ser. No. US 1995-446645, filed on 25 May 1995

PRAI DK 1994-504 19940503  
DT Utility  
FS Granted  
LN.CNT 2274  
INCL INCLM: 435/190.000  
INCLS: 435/911.000  
NCL NCLM: 435/190.000  
NCLS: 435/911.000  
IC [6]  
ICM: C12N009-04  
ICS: C12N001-00  
EXF 435/190; 435/911  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 16 OF 47 USPATFULL on STN  
AN 1998:138694 USPATFULL  
TI Methods of modifying carbohydrate moieties  
IN Maras, Marleen, Gentbrugge, Belgium  
Contreras, Roland, Merelbeke, Belgium  
PA Alko Group Ltd., Helsinki, Finland (non-U.S. corporation)  
PI US 5834251 19981110 <--  
AI US 1994-366800 19941230 (8)  
DT Utility  
FS Granted  
LN.CNT 1940  
INCL INCLM: 435/071.100  
INCLS: 435/072.000; 435/085.000; 435/097.000; 435/099.000; 435/069.100;  
435/171.000; 435/068.100  
NCL NCLM: 435/071.100  
NCLS: 435/068.100; 435/069.100; 435/072.000; 435/085.000; 435/097.000;  
435/099.000; 435/171.000  
IC [6]  
ICM: C12P021-00  
ICS: C12P019-18; C12P001-02  
EXF 435/71.1; 435/85; 435/97; 435/99; 435/171; 435/72; 435/69.1; 435/68.1  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 17 OF 47 USPATFULL on STN  
AN 1998:134884 USPATFULL  
TI Enzyme with acetyl esterase activity  
IN Christgau, Stephen, Gentofte, Denmark  
Sandal, Thomas, Copenhagen, Denmark  
Kauppinen, Markus Sakari, Copenhagen, Denmark  
Halkier, Torben, Frederiksberg, Denmark  
Dalb.o slashed.ge, Henrik, Virum, Denmark  
PA Novo Nordisk A/S, Bassvaerd, Denmark (non-U.S. corporation)  
PI US 5830734 19981103 <--  
WO 9502689 19950126 <--  
AI US 1996-578592 19960104 (8)  
WO 1994-DK285 19940713  
19960104 PCT 371 date  
19960104 PCT 102(e) date

PRAI DK 1993-839 19930713  
DT Utility  
FS Granted  
LN.CNT 1079  
INCL INCLM: 435/197.000  
INCLS: 435/018.000; 435/101.000; 435/196.000; 435/267.000; 435/274.000;  
435/278.000  
NCL NCLM: 435/197.000  
NCLS: 435/018.000; 435/101.000; 435/196.000; 435/267.000; 435/274.000;  
435/278.000  
IC [6]  
ICM: C12Q001-44  
ICS: C12N009-18; C07G017-00; D21C003-00  
EXF 435/101; 435/196; 435/225; 435/267; 435/274; 435/278; 435/197; 435/18;  
435/19; 426/635  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 18 OF 47 USPATFULL on STN  
 AN 1998:128125 USPATFULL  
 TI Orpinomyces xylanase proteins and coding sequences  
 IN Li, Xin-Liang, Athens, GA, United States  
 Ljungdahl, Lars G., Athens, GA, United States  
 Chen, Huizhong, Athens, GA, United States  
 PA University of Georgia Research Foundation, Inc., Athens, GA, United States (U.S. corporation)  
 PI US 5824533 19981020 <--  
 AI US 1995-445090 19950519 (8)  
 DT Utility  
 FS Granted  
 LN.CNT 1418  
 INCL INCLM: 435/209.000  
 INCLS: 536/023.740; 536/023.200  
 NCL NCLM: 435/209.000  
 NCLS: 536/023.200; 536/023.740  
 IC [6]  
 ICM: C07H021-04  
 ICS: C12N009-42  
 EXF 435/183; 435/200; 435/205; 435/201; 435/209; 435/69.1; 435/69.8;  
 435/71.1; 435/320.1; 435/252.3; 536/23; 536/74; 536/23.2  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 19 OF 47 USPATFULL on STN  
 AN 1998:122255 USPATFULL  
 TI Animal feed additives  
 IN Hansen, Peter Kamp, Bagsvaerd, Denmark  
 Wagner, Peter, Bagsvaerd, Denmark  
 Mullertz, Anette, Bagsvaerd, Denmark  
 Knap, Inge Helmer, Bagsvaerd, Denmark  
 PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
 PI US 5817500 19981006 <--  
 AI US 1997-886765 19970701 (8)  
 PRAI DK 1995-94 19950126  
 DT Utility  
 FS Granted  
 LN.CNT 1610  
 INCL INCLM: 435/200.000  
 INCLS: 435/006.000; 435/252.300; 435/254.110; 435/254.300; 435/320.100;  
 435/325.000; 536/023.200; 536/024.300  
 NCL NCLM: 435/200.000  
 NCLS: 435/006.000; 435/252.300; 435/254.110; 435/254.300; 435/320.100;  
 435/325.000; 536/023.200; 536/024.300  
 IC [6]  
 ICM: C12N009-24  
 ICS: C12N015-00; C12N001-14; C07H021-04  
 EXF 435/6; 435/200; 435/252.3; 435/254.11; 435/325; 435/320.1; 435/254.3;  
 536/23.2; 536/24.3  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 20 OF 47 USPATFULL on STN  
 AN 1998:115607 USPATFULL  
 TI Enzyme with rhamnogalacturonase activity  
 IN Kofod, Lene Venke, Uggerl.o slashed.se, Denmark  
 Andersen, Lene Nonboe, Birker.o slashed.d, Denmark  
 Dalb.o slashed.ge, Henrik, Virum, Denmark  
 Kauppinen, Markus Sakari, Copenhagen, Denmark  
 Christgau, Stephan, Vedb.o slashed.k, Denmark  
 Heldt-Hansen, Hans Peter, Virum, Denmark  
 Christophersen, Claus, Ringsted, Denmark  
 Nielsen, Per Munk, Hiller.o slashed.d, Denmark  
 Voragen, Alphons Gerard Joseph, Wageningen, Netherlands  
 Schols, Hendrik Arie, Wageningen, Netherlands  
 PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
 PI US 5811291 19980922 <--  
 WO 9420612 19940915 <--  
 AI US 1995-522229 19950925 (8)  
 WO 1994-DK97 19940304

19950925 PCT 371 date  
19950925 PCT 102(e) date

PRAI DK 1993-244 19930305  
DT Utility  
FS Granted  
LN.CNT 1515  
INCL INCLM: 435/275.000  
INCLS: 435/200.000; 435/208.000; 435/274.000  
NCL NCLM: 435/275.000  
NCLS: 435/200.000; 435/208.000; 435/274.000  
IC [6]  
ICM: C12N009-24  
ICS: C08B001-00; C08B030-04  
EXF 435/200; 435/208; 435/209; 435/274; 435/275; 435/277  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 21 OF 47 USPATFULL on STN  
AN 1998:98786 USPATFULL  
TI Purified Myceliophthora laccases and nucleic acids encoding same  
IN Berka, Randy Michael, Davis, CA, United States  
Brown, Stephen H., Davis, CA, United States  
Xu, Feng, Woodland, CA, United States  
Schneider, Palle, Ballerup, Denmark  
Oxenb.o slashed.ll, Karen M., Charlottenlund, Denmark  
Aaslyng, Dorrit A., Vaerloese, Denmark  
PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
Novo Nordisk Biotech, Inc., Davis, CA, United States (U.S. corporation)  
PI US 5795760 19980818 <--  
AI US 1997-940661 19970929 (8)  
RLI Continuation of Ser. No. US 1995-441146, filed on 15 May 1995, now  
abandoned which is a continuation-in-part of Ser. No. US 1994-253781,  
filed on 3 Jun 1994, now abandoned  
DT Utility  
FS Granted  
LN.CNT 1247  
INCL INCLM: 435/189.000  
INCLS: 435/069.100; 435/071.100; 435/243.000; 435/252.300; 435/254.110;  
435/254.300; 435/320.100; 435/172.300; 536/023.200; 935/014.000;  
935/027.000; 935/034.000; 935/056.000; 935/066.000; 935/068.000  
NCL NCLM: 435/189.000  
NCLS: 435/069.100; 435/071.100; 435/243.000; 435/252.300; 435/254.110;  
435/254.300; 435/320.100; 536/023.200  
IC [6]  
ICM: C12N015-53  
ICS: C12N009-02; C12N001-15; C12N015-63  
EXF 536/23.2; 435/69.1; 435/71.1; 435/172.3; 435/189; 435/243; 435/252.3;  
435/254.11; 435/254.3; 435/320.1; 935/14; 935/27; 935/34; 935/56;  
935/66; 935/68  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 22 OF 47 USPATFULL on STN  
AN 1998:72456 USPATFULL  
TI DNA constructs and methods of producing xylanolytic enzymes  
IN Outtrup, Helle, Bellerup, Denmark  
Dambmann, Claus, S.o slashed.borg, Denmark  
Olsen, Arne Agerlin, Virum, Denmark  
Bisg.ang.rd-Frantzen, Henrik, Lyngby, Denmark  
Schulein, Martin, Copenhagen, Denmark  
Jorgensen, Per Linaa, Copenhagen, Denmark  
PA NovoNordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
PI US 5770424 19980623 <--  
AI US 1996-698978 19960816 (8)  
RLI Continuation-in-part of Ser. No. US 1996-470398, filed on 6 Jun 1996  
which is a continuation of Ser. No. US 1994-343600, filed on 30 Nov  
1994, now abandoned  
DT Utility  
FS Granted  
LN.CNT 732  
INCL INCLM: 435/200.000



INCLS: 435/200.000; 435/252.300; 435/252.310; 435/320.100; 536/023.200  
NCL NCLM: 435/200.000  
NCLS: 435/252.300; 435/252.310; 435/320.100; 536/023.200  
IC [6]  
ICM: C12N009-24  
ICS: C12N001-20; C12N015-00; C07H021-04  
EXF 435/200; 435/320.1; 435/252.3; 435/252.31; 435/25.3; 536/23.2  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 23 OF 47 USPATFULL on STN  
AN 1998:72405 USPATFULL  
TI Modification of cryptic splice sites in heterologous genes expressed in  
fungi  
IN Thompson, Sheryl, Davis, CA, United States  
PA Novo Nordisk Biotech, Inc., Davis, CA, United States (U.S. corporation)  
PI US 5770371 19980623 <--  
AI US 1996-672158 19960627 (8)  
DT Utility  
FS Granted  
LN.CNT 1321  
INCL INCLM: 435/006.000  
INCLS: 435/091.400; 435/254.110; 435/320.100; 435/069.100; 536/023.100  
NCL NCLM: 435/006.000  
NCLS: 435/069.100; 435/091.400; 435/254.110; 435/320.100; 536/023.100  
IC [6]  
ICM: C12Q001-68  
ICS: C12P019-34; C12N001-15; C07H021-04  
EXF 435/69.1; 435/91.1; 435/240.1; 435/254.11; 435/6; 435/8; 435/71.1;  
435/91.4; 435/320.1; 530/300; 530/350; 536/23.1; 536/24.1  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 24 OF 47 USPATFULL on STN  
AN 1998:65048 USPATFULL  
TI Method to alter the properties of acetylated xylan  
IN De Graaff, Leendert H., Oosterbeek, Netherlands  
Visser, Jacob, Wageningen, Netherlands  
Van Den Broeck, Henriette C., Ede, Netherlands  
Strozyk, Francois, Leforest, France  
Kormelink, Felix J. M., Bennekom, Netherlands  
Boonman, Johannes C. P., Haarlem, Netherlands  
PA Gist-brocades, B.V., Netherlands (non-U.S. corporation)  
PI US 5763260 19980609 <--  
AI US 1995-401136 19950308 (8)  
RLI Division of Ser. No. US 1992-851976, filed on 16 Mar 1992, now patented,  
Pat. No. US 5426043  
PRAI EP 1991-200579 19910318  
DT Utility  
FS Granted  
LN.CNT 968  
INCL INCLM: 435/274.000  
INCLS: 435/101.000; 435/197.000; 435/278.000; 426/053.000; 426/054.000;  
426/635.000; 426/656.000  
NCL NCLM: 435/274.000  
NCLS: 426/053.000; 426/054.000; 426/635.000; 426/656.000; 435/101.000;  
435/197.000; 435/278.000  
IC [6]  
ICM: C12S003-02  
ICS: C12S003-08; C12N009-18; A23K001-00  
EXF 435/101; 435/197; 435/274; 435/278; 426/53; 426/54; 426/635; 426/656  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 25 OF 47 USPATFULL on STN  
AN 1998:54730 USPATFULL  
TI Trichoderma longibrachiatum EGI111 cellulase  
IN Ward, Michael, Half Moon Bay, CA, United States  
Clarkson, Kathleen A., San Francisco, CA, United States  
Larenas, Edmund A., San Carlos, CA, United States  
Lorch, Jeffrey D., Hudson, WI, United States  
Weiss, Geoffrey L., San Francisco, CA, United States

PA Genencor International, Inc., Rochester, NY, United States (U.S. corporation)  
PI US 5753484 19980519 <--  
AI US 1995-438870 19950510 (8)  
RLI Division of Ser. No. US 1993-32848, filed on 17 Mar 1993, now patented, Pat. No. US 5475101 which is a continuation-in-part of Ser. No. US 1992-862846, filed on 3 Apr 1992, now patented, Pat. No. US 5328841 which is a continuation-in-part of Ser. No. US 1991-707647, filed on 30 May 1991, now patented, Pat. No. US 5290474 which is a continuation-in-part of Ser. No. US 1991-668640, filed on 13 Mar 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-593919, filed on 5 Oct 1990, now abandoned, said Ser. No. US -32848 which is a continuation-in-part of Ser. No. US 1991-678865, filed on 21 Mar 1991, now patented, Pat. No. US 5246853 which is a continuation-in-part of Ser. No. US -593919  
DT Utility  
FS Granted  
LN.CNT 780  
INCL INCLM: 435/209.000  
INCLS: 435/183.000; 435/195.000; 530/350.000; 530/371.000; 424/094.610  
NCL NCLM: 435/209.000  
NCLS: 424/094.610; 435/183.000; 435/195.000; 530/350.000; 530/371.000  
IC [6]  
ICM: C12N009-42  
ICS: C12N009-00; C12N009-14; C07K001-00  
EXF 530/300; 530/350; 530/371; 435/183; 424/94.61; 424/94.1; 424/94.6  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 26 OF 47 USPATFULL on STN  
AN 1998:14660 USPATFULL  
TI Transformed industrial bacillus strains and methods for making and using them  
IN Sanders, Johan Pieter Marinus, Delft, Netherlands  
Van den Berg, Johannes Abel, Reeuwijk, Netherlands  
Andreoli, Peter Michael, Bellegem, Belgium  
Vos, Yvonne Johanna, IJssel, Netherlands  
van Ee, Jan Hendrik, Huizen, Netherlands  
Mulleners, Leo J. S. M., Rijen, Netherlands  
PA Gist-Brocades, Delft, Netherlands (non-U.S. corporation)  
PI US 5716807 19980210 <--  
AI US 1996-698785 19960816 (8)  
RLI Continuation of Ser. No. US 1992-993785, filed on 21 Dec 1992, now patented, Pat. No. US 5624829 which is a continuation of Ser. No. US 1991-658173, filed on 19 Feb 1991, now abandoned which is a continuation of Ser. No. US 1987-15110, filed on 17 Feb 1987, now abandoned which is a continuation-in-part of Ser. No. US 1984-627589, filed on 3 Jul 1984, now abandoned  
DT Utility  
FS Granted  
LN.CNT 927  
INCL INCLM: 435/069.100  
INCLS: 435/202.000; 435/212.000; 435/172.300; 435/252.310  
NCL NCLM: 435/069.100  
NCLS: 435/202.000; 435/212.000; 435/252.310; 435/454.000  
IC [6]  
ICM: C12P021-02  
ICS: C12N009-28; C12N009-48; C12N001-21  
EXF 435/69.1; 435/172.1; 435/172.3; 435/202; 435/320.1; 435/252.3; 435/252.31; 435/212; 435/222; 435/219  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 27 OF 47 USPATFULL on STN  
AN 1998:1645 USPATFULL  
TI Process for producing/secreting a protein by a transformed mould using expression/secretion regulating regions derived from a aspergillus endoxylanase II gene  
IN Gouka, Robertus Johannes, The Hague, Netherlands  
van den Hondel, Cornelis Antonius, Gouda, Netherlands  
Musters, Wouter, Maassluis, Netherlands

Stam, Hein, Diemen, Netherlands  
 Verbakel, Johannes Maria, Maasland, Netherlands  
 PA Unilever Patent Holdings B.V., Vlaardingen, Netherlands (non-U.S.  
 corporation)  
 PI US 5705358 19980106 <--  
 WO 9312237 19930624 <--  
 AI US 1994-244686 19940607 (8)  
 WO 1992-EP2896 19921209  
 19940607 PCT 371 date  
 19940607 PCT 102(e) date  
 PRAI NL 1991-2051 19911209  
 DT Utility  
 FS Granted  
 LN.CNT 1262  
 INCL INCLM: 435/069.100  
 INCLS: 435/172.300  
 NCL NCLM: 435/069.100  
 IC [6]  
 ICM: C12N015-62  
 ICS: C12P021-02  
 EXF 435/69.1; 435/68.1; 435/9.4; 435/172.3  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 28 OF 47 CAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1997:517565 CAPLUS  
 DN 127:202072  
 TI Production and secretion of proteins of bacterial origin in filamentous  
 fungi  
 IN Mantyla, Arja; Paloheimo, Marja; Lantto, Raija; Fagerstrom, Richard;  
 Lahtinen, Tarja; Suominen, Pirkko; Vehmaanpera, Jari  
 PA Alko Group Ltd., Finland; Mantyla, Arja; Paloheimo, Marja; Lantto, Raija;  
 Fagerstrom, Richard; Lahtinen, Tarja; Suominen, Pirkko; Vehmaanpera, Jari  
 SO PCT Int. Appl., 127 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9727306	A1	19970731	WO 1997-FI37	19970124 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,				
	DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC,				
	LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,				
	RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN,				
	AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,				
	IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,				
	MR, NE, SN, TD, TG				
	US 6300114	B1	20011009	US 1996-590563	19960126
	AU 9715477	A1	19970820	AU 1997-15477	19970124 <--
	EP 876494	A1	19981111	EP 1997-901640	19970124 <--
	R: BE, CH, DE, DK, ES, FR, LI, NL, SE, PT, IE, FI				
	US 2003148453	A1	20030807	US 2002-286993	20020813
PRAI	US 1996-590563	A	19960126		
	US 1994-282001	B2	19940729		
	US 1994-332412	B2	19941031		
	US 1995-468812	A2	19950606		
	WO 1997-FI37	W	19970124		
	US 1998-120804	B1	19980723		

L7 ANSWER 29 OF 47 USPATFULL on STN  
 AN 97:112353 USPATFULL  
 TI Enzymes with xylanase activity from Aspergillus aculeatus  
 IN Kofod, Lene Venke, Ugerloese, Denmark  
 Kauppinen, Markus Sakari, Copenhagen, Denmark  
 Christgau, Stephan, Vedbaek, Denmark  
 Heldt-Hansen, Hans Peter, Virum, Denmark  
 Dalb.o slashed.ge, Henrik, Esbjerg, Denmark  
 Andersen, Lene Nonboe, Birker.o slashed.d, Denmark

Si, Joan Qi, Klampenborg, Denmark  
 Jacobsen, Tina Sejersg.ang.rd, Copenhagen, Denmark  
 Munk, Niels, Frederiksberg, Denmark  
 Mullertz, Anette, Charlottenlund, Denmark  
 PA Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)  
 PI US 5693518 19971202 <--  
 WO 9421785 19940929 <--  
 AI US 1996-507431 19960215 (8)  
 WO 1994-DK88 19940302  
 19960215 PCT 371 date  
 19960215 PCT 102(e) date  
 PRAI DK 1993-268 19930310  
 DK 1993-1151 19931014  
 DT Utility  
 FS Granted  
 LN.CNT 2056  
 INCL INCLM: 435/200.000  
 INCLS: 435/252.300; 435/254.100; 435/254.200; 435/254.300; 435/320.100;  
 536/023.200; 536/023.740  
 NCL NCLM: 435/200.000  
 NCLS: 435/252.300; 435/254.100; 435/254.200; 435/254.300; 435/320.100;  
 536/023.200; 536/023.740  
 IC [6]  
 ICM: C12N009-24  
 ICS: C12N001-22; C12N015-00; C07H021-04  
 EXF 435/200; 435/252.3; 435/254.1; 435/254.2; 435/254.3; 435/209; 435/320.1;  
 536/23.2; 536/23.74  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 30 OF 47 USPATFULL on STN  
 AN 97:99185 USPATFULL  
 TI Cloning and expression of acetyl xylan esterases from fungal origin  
 IN De Graaff, Leendert H., Oosterbeek, Netherlands  
 Visser, Jacob, Wageningen, Netherlands  
 Van Den Broeck, Henriette C., Ede, Netherlands  
 Strozyk, Francois, Leforest, France  
 Kormelink, Felix J. M., Bennekom, Netherlands  
 Boonman, Johannes C. P., Haarlem, Netherlands  
 PA Gist-brocades, B.V., Netherlands (non-U.S. corporation)  
 PI US 5681732 19971028 <--  
 AI US 1994-291609 19940817 (8)  
 RLI Continuation of Ser. No. US 1992-851976, filed on 16 Mar 1992, now  
 patented, Pat. No. US 5426043  
 PRAI EP 1991-200579 19910318  
 DT Utility  
 FS Granted  
 LN.CNT 992  
 INCL INCLM: 435/197.000  
 INCLS: 435/069.100; 435/071.200; 435/252.300; 435/252.310; 435/320.100;  
 435/172.300; 435/254.200; 435/254.300; 536/023.200; 935/014.000;  
 935/029.000; 935/056.000  
 NCL NCLM: 435/197.000  
 NCLS: 435/069.100; 435/071.200; 435/252.300; 435/252.310; 435/254.200;  
 435/254.300; 435/320.100; 536/023.200  
 IC [6]  
 ICM: C12N015-55  
 ICS: C12N009-18; C12N001-15; C12N015-63  
 EXF 435/69.1; 435/71.2; 435/197; 435/252.3; 435/252.31; 435/320.1;  
 435/172.3; 435/254.2; 435/254.3; 536/23.2; 935/14; 935/29; 935/56  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 31 OF 47 USPATFULL on STN  
 AN 97:91492 USPATFULL  
 TI Detergent compositions containing protease and novel inhibitors for use  
 therein  
 IN Mikkelsen, Jan M.o slashed.ller, Gentofte, Denmark  
 Svendsen, Allan, Birker.o slashed.d, Denmark  
 Diderichsen, B.o slashed.rge, Birker.o slashed.d, Denmark  
 Clausen, Ib Groth, Charlottenlund, Denmark

PA Novo Nordisk A/S, Novo Alle, Denmark (non-U.S. corporation)  
PI US 5674833 19971007 <--  
AI US 1995-435241 19950505 (8)  
RLI Continuation of Ser. No. US 1992-827688, filed on 28 Jan 1992, now  
abandoned  
PRAI DK 1990-2237 19900918  
DT Utility  
FS Granted  
LN.CNT 810  
INCL INCLM: 510/530.000  
INCLS: 210/393.000; 210/392.000; 435/188.000; 435/219.000; 435/220.000;  
435/221.000; 435/222.000; 435/264.000; 435/320.100; 435/069.100  
NCL NCLM: 510/530.000  
NCLS: 435/069.100; 435/188.000; 435/219.000; 435/220.000; 435/221.000;  
435/222.000; 435/264.000; 435/320.100; 510/392.000; 510/393.000  
IC [6]  
ICM: C11D003-386  
EXF 252/174.12; 252/DIG.12; 435/188; 435/219-222; 435/264; 435/320.1;  
435/69.1; 510/392; 510/530; 510/393  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 32 OF 47 USPATFULL on STN  
AN 97:83817 USPATFULL  
TI Aspergillus expression system  
IN Berka, Randy Michael, Davis, CA, United States  
Yoder, Wendy, Winters, CA, United States  
Takagi, Shinobu, Davis, CA, United States  
Boominathan, Karuppan Chettier, Davis, CA, United States  
PA Novo Nordisk Biotech, Inc., Davis, CA, United States (U.S. corporation)  
PI US 5667990 19970916 <--  
AI US 1995-458023 19950601 (8)  
RLI Continuation of Ser. No. US 1993-161675, filed on 1 Dec 1993, now  
abandoned  
DT Utility  
FS Granted  
LN.CNT 1299  
INCL INCLM: 435/069.100  
INCLS: 435/172.300; 435/254.300; 536/023.200; 536/023.740  
NCL NCLM: 435/069.100  
NCLS: 435/254.300; 536/023.200; 536/023.740  
IC [6]  
ICM: C12P021-02  
ICS: C12N015-11; C12N001-15; C07H021-04  
EXF 435/254.3; 435/69.1; 435/172.3; 536/23.2; 536/23.74  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 33 OF 47 USPATFULL on STN  
AN 97:81137 USPATFULL  
TI Recombinant production of glucoamylase P in trichoderma  
IN Torkkeli, Tuula, Helsinki, Finland  
Joutsjoki, Vesa, Helsinki, Finland  
Torkkeli, Helena, Helsinki, Finland  
Vainio, Arja, Helsinki, Finland  
Fagerstrom, Richard, Espoo, Finland  
Aho, Sirpa, Helsinki, Finland  
Korhola, Matti, Helsinki, Finland  
Nevalainen, Helena, North Epping, Australia  
PA Alko-Yhiot Oy, Finland (non-U.S. corporation)  
PI US 5665585 19970909 <--  
AI US 1995-385370 19950207 (8)  
RLI Continuation of Ser. No. US 1993-104853, filed on 12 Aug 1993, now  
abandoned And a continuation-in-part of Ser. No. US 1992-937789, filed  
on 3 Sep 1992, now abandoned  
DT Utility  
FS Granted  
LN.CNT 3635  
INCL INCLM: 435/203.000  
INCLS: 435/069.100; 435/172.300; 435/183.000; 435/201.000; 435/210.000;  
435/254.600; 435/256.800; 435/320.100; 536/023.100; 536/023.200;

536/023.740  
NCL NCLM: 435/203.000  
NCLS: 435/069.100; 435/183.000; 435/201.000; 435/210.000; 435/254.600;  
435/256.800; 435/320.100; 536/023.100; 536/023.200; 536/023.740  
IC [6]  
ICM: C12N001-15  
ICS: C12N009-30; C12N015-56  
EXF 435/69.1; 435/183; 435/201; 435/203; 435/210; 435/254.6; 435/256.8;  
435/172.3; 435/320.1; 536/23.1; 536/23.2; 536/23.74  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 34 OF 47 USPATFULL on STN  
AN 97:76006 USPATFULL  
TI Mannanase enzymes, genes coding for them and a method for isolating the  
genes, as well as a process for bleaching of lignocellulosic pulp  
IN Buchert, Johanna, Espoo, Finland  
Siika-aho, Matti, Helsinki, Finland  
Viikari, Liisa, Helsinki, Finland  
Penttila, Merja, Helsinki, Finland  
Saloheimo, Anu, Helsinki, Finland  
Ranua, Marjatta, Lohja, Finland  
PA Alko Ltd., Helsinki, Finland (non-U.S. corporation)  
PI US 5661021 19970826 <--  
WO 9324622 19931209 <--  
AI US 1994-341568 19941122 (8)  
WO 1993-FI219 19930524  
19941122 PCT 371 date  
19941122 PCT 102(e) date  
PRAI FI 1992-2373 19920522  
FI 1993-1193 19930317  
DT Utility  
FS Granted  
LN.CNT 962  
INCL INCLM: 435/209.000  
INCLS: 435/256.700; 435/278.000  
NCL NCLM: 435/209.000  
NCLS: 435/256.700; 435/278.000  
IC [6]  
ICM: C12N009-42  
ICS: C12N001-14; D21C003-00  
EXF 435/4; 435/69.1; 435/71.1; 435/172.3; 435/200; 435/254.6; 435/255.2;  
435/278; 435/209  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 35 OF 47 USPATFULL on STN  
AN 97:63924 USPATFULL  
TI Methods for stonewashing fabrics using endoglucanases  
IN Clarkson, Kathleen A., San Francisco, CA, United States  
Larenas, Edmund, Moss Beach, CA, United States  
Weiss, Geoffrey, San Francisco, CA, United States  
Bower, Benjamin S., San Francisco, CA, United States  
PA Genencor International, Inc., South San Francisco, CA, United States  
(U.S. corporation)  
PI US 5650322 19970722 <--  
AI US 1992-954113 19920930 (7)  
RLI Continuation-in-part of Ser. No. US 1991-677385, filed on 19 Mar 1991,  
now abandoned And a continuation-in-part of Ser. No. US 1991-678865,  
filed on 29 Mar 1991, now abandoned And a continuation-in-part of Ser.  
No. US 1991-770049, filed on 4 Oct 1991, now abandoned , each Ser. No.  
US - which is a continuation-in-part of Ser. No. US 1990-593919, filed  
on 5 Oct 1990, now abandoned  
DT Utility  
FS Granted  
LN.CNT 1654  
INCL INCLM: 435/263.000  
INCLS: 435/209.000; 510/392.000  
NCL NCLM: 435/263.000  
NCLS: 435/209.000; 510/392.000  
IC [6]

ICM: D06M016-00  
ICS: C12N009-42; C11D009-40  
EXF 435/172.3; 435/69.1; 435/209; 435/254; 435/320.1; 435/263; 252/816;  
252/174.12  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 36 OF 47 USPATFULL on STN  
AN 97:36090 USPATFULL  
TI Transformed industrial bacillus strains and methods for making and using  
them  
IN Sanders, Johan P. M., Delft, Netherlands  
van den Berg, Johannes A., Reeuwijk, Netherlands  
Andreoli, Peter M., Belleghem Kortrijk, Belgium  
Vos, Yvonne J., Capelle a/d Yssel Fe, Netherlands  
van Ee, Jan H., Huizen, Netherlands  
Mulleners, Leo J. S. M., Rijen, Netherlands  
PA Gist-Brocades, B.V., Delft, Netherlands (non-U.S. corporation)  
PI US 5624829 19970429 <--  
AI US 1992-993785 19921221 (7)  
RLI Continuation of Ser. No. US 1991-658173, filed on 19 Feb 1991, now  
abandoned which is a continuation of Ser. No. US 1987-15110, filed on 17  
Feb 1987, now abandoned which is a continuation-in-part of Ser. No. US  
1984-627589, filed on 3 Jul 1984, now abandoned  
DT Utility  
FS Granted  
LN.CNT 1194  
INCL INCLM: 435/172.300  
INCLS: 435/069.100; 435/172.100; 435/202.000; 435/252.300; 435/252.310;  
435/212.000; 435/219.000; 435/222.000; 435/320.100  
NCL NCLM: 435/454.000  
NCLS: 435/069.100; 435/202.000; 435/212.000; 435/219.000; 435/222.000;  
435/252.300; 435/252.310; 435/320.100  
IC [6]  
ICM: C12N015-03  
ICS: C12N001-21; C12N015-75; C12N015-63  
EXF 435/172.1; 435/172.3; 435/91; 435/69.1; 435/252.3; 435/252.31;  
435/320.1; 435/201; 435/202; 435/212; 435/222; 435/219; 935/52  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 37 OF 47 USPATFULL on STN  
AN 97:20417 USPATFULL  
TI Cloning and expression of xylanase B  
IN van Ooyen, Albert J. J., Voorburg, Netherlands  
DeGraaff, Leendert H., Oosterbeek, Netherlands  
van den Broeck, Henriette C., Wageningen, Netherlands  
Visser, Jacob, Wageningen, Netherlands  
PA Gist-brocades, N.V., Ma Delft, Netherlands (non-U.S. corporation)  
PI US 5610046 19970311 <--  
WO 9414965 19940707 <--  
AI US 1994-290979 19941028 (8)  
WO 1993-EP3701 19931224  
19941028 PCT 371 date  
19941028 PCT 102(e) date  
PRAI EP 1992-204092 19921224  
DT Utility  
FS Granted  
LN.CNT 1233  
INCL INCLM: 435/200.000  
INCLS: 435/254.110; 435/320.100; 435/252.300; 536/023.200  
NCL NCLM: 435/200.000  
NCLS: 435/252.300; 435/254.110; 435/320.100; 536/023.200  
IC [6]  
ICM: C12N009-24  
ICS: C12N001-19; C12N015-63; C07H021-04  
EXF 435/200; 435/69.1; 435/320.1; 435/254.11; 536/23.2; 536/24.1  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 38 OF 47 USPATFULL on STN  
AN 97:1347 USPATFULL

TI Methods of detecting and isolating a ripening form of a polypeptide  
 having rhamnogalacturonase activity  
 IN Musters, Wouter, Maassluis, Netherlands  
 Stam, Hein, Diemen, Netherlands  
 Suykerbuyk, Maria E., Utrecht, Netherlands  
 Visser, Jacob, Wageningen, Netherlands  
 Verbakel, Johannes M., Maasland, Netherlands  
 PA Unilever Patent Holdings, B.V., Vlaardingen, Netherlands (non-U.S.  
 corporation)  
 PI US 5591620 19970107 <--  
 AI US 1995-536242 19950929 (8)  
 RLI Division of Ser. No. US 1993-61062, filed on 14 May 1993  
 PRAI EP 1992-201403 19920515  
 DT Utility  
 FS Granted  
 LN.CNT 2088  
 INCL INCLM: 435/201.000  
 INCLS: 435/183.000; 435/007.100  
 NCL NCLM: 435/201.000  
 NCLS: 435/007.100; 435/183.000  
 IC [6]  
 ICM: C12N009-26  
 EXF 435/201; 435/7.1; 435/183; 514/57; 536/8; 426/271; 426/330.5  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 39 OF 47 USPATFULL on STN  
 AN 97:1346 USPATFULL  
 TI Aureobasidium pullulans xylanase, gene and signal sequence  
 IN Xin-Liang, Li, Athens, GA, United States  
 Ljungdahl, Lars G., Athens, GA, United States  
 PA University of Georgia Research Foundation, Inc., Athens, GA, United  
 States (U.S. corporation)  
 PI US 5591619 19970107 <--  
 AI US 1994-315695 19940930 (8)  
 DT Utility  
 FS Granted  
 LN.CNT 2284  
 INCL INCLM: 435/201.000  
 INCLS: 435/069.100; 435/254.210; 536/023.200; 536/023.400  
 NCL NCLM: 435/201.000  
 NCLS: 435/069.100; 435/254.210; 536/023.200; 536/023.400  
 IC [6]  
 ICM: C12N001-19  
 ICS: C12N015-55; C12N015-62; C12P021-00  
 EXF 435/254.21; 435/200; 536/23.2; 536/23.4; 536/23.74  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 40 OF 47 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI on STN  
 AN 1997-08393 BIOTECHDS  
 TI Synthesis of biotechnologically relevant heterologous proteins in  
 filamentous fungi;  
 recombinant protein expression and metabolic engineering in e.g.  
 Acremonium chrysogenum, Aspergillus spp. or Trichoderma reesei; a  
 review  
 AU Radzio R; \*Kueck U  
 CS Univ.Bochum-Ruhr  
 LO Lehrstuhl fuer Allgemeine Botanik, Ruhr Universitaet Bochum, D-44780  
 Bochum, Germany.  
 SO Process Biochem.; (1997) 32, 6, 529-39  
 CODEN: 7950W ISSN: 0032-9592  
 DT Journal  
 LA English

L7 ANSWER 41 OF 47 USPATFULL on STN  
 AN 96:77701 USPATFULL  
 TI Cloning and expression of DNA encoding a ripening form of a polypeptide  
 having rhamnogalacturonase activity  
 IN Musters, Wouter, Maassluis, Netherlands  
 Stam, Hein, Diemen, Netherlands



Suykerbuyk, Maria E., Utrecht, Netherlands  
Visser, Jacob, Wageningen, Netherlands  
Verbakel, Johannes M., Maasland, Netherlands  
PA Unilever Patent Holdings, B.V., Vlaardingen, Netherlands (non-U.S.  
corporation)  
PI US 5550045 19960827 <--  
AI US 1993-61062 19930514 (8)  
PRAI EP 1992-201403 19920515  
DT Utility  
FS Granted  
LN.CNT 2423  
INCL INCLM: 435/201.000  
INCLS: 435/069.100; 435/240.400; 435/252.300; 435/254.110; 435/254.200;  
435/254.210; 435/255.100; 435/256.100; 435/320.100; 536/022.100;  
536/023.100; 536/023.200; 536/023.740  
NCL NCLM: 435/201.000  
NCLS: 435/069.100; 435/252.300; 435/254.110; 435/254.200; 435/254.210;  
435/255.100; 435/256.100; 435/320.100; 435/419.000; 536/022.100;  
536/023.100; 536/023.200; 536/023.740  
IC [6]  
ICM: C12P021-06  
ICS: C12N001-14; C12N009-26; C07H019-00  
EXF 435/201; 435/69.1; 435/252.3; 435/320.1; 435/254.11; 435/254.2;  
435/254.21; 435/255.1; 435/256.1; 435/240.4; 536/22.1; 536/23.1;  
536/23.2; 536/23.74  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 42 OF 47 USPATFULL on STN  
AN 95:110549 USPATFULL  
TI DNA sequence encoding endoglucanase III cellulase  
IN Ward, Michael, Half Moon Bay, CA, United States  
Clarkson, Kathleen A., San Francisco, CA, United States  
Larenas, Edmund A., San Carlos, CA, United States  
Lorch, Jeffrey D., Hudson, WI, United States  
Weiss, Geoffrey L., San Francisco, CA, United States  
PA Genencor International, Inc., Rochester, NY, United States (U.S.  
corporation)  
PI US 5475101 19951212 <--  
AI US 1993-32848 19930317 (8)  
RLI Continuation-in-part of Ser. No. US 1992-862846, filed on 3 Apr 1992,  
now patented, Pat. No. US 5328841 which is a continuation-in-part of  
Ser. No. US 1991-707647, filed on 30 May 1991, now patented, Pat. No. US  
5290474 which is a continuation-in-part of Ser. No. US 1991-668640,  
filed on 13 Mar 1991, now abandoned which is a continuation-in-part of  
Ser. No. US 1990-593919, filed on 5 Oct 1990, now abandoned And a  
continuation-in-part of Ser. No. US 1991-678865, filed on 29 Mar 1991,  
now patented, Pat. No. US 5246853  
DT Utility  
FS Granted  
LN.CNT 834  
INCL INCLM: 536/023.740  
INCLS: 536/023.200; 435/209.000  
NCL NCLM: 536/023.740  
NCLS: 435/209.000; 536/023.200  
IC [6]  
ICM: C12N009-42  
ICS: C12N015-56  
EXF 536/23.2; 536/23.7; 536/23.74; 435/209  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 43 OF 47 USPATFULL on STN  
AN 95:54314 USPATFULL  
TI Cloning and expression of acetyl xylan esterases from fungal origin  
IN De Graaff, Leendert H., Oosterbeek, Netherlands  
Visser, Jacob, Wageningen, Netherlands  
Van Den Broeck, Henriette C., Ede, Netherlands  
Strozyk, Francois, Leforest, France  
Kormelink, Felix J. M., Bennekom, Netherlands  
Boonman, Johannes C. P., Haarlem, Netherlands

PA Gist-Brocades, N.V., Delft, Netherlands (non-U.S. corporation)  
 PI US 5426043 19950620 <--  
 AI US 1992-851976 19920316 (7)  
 PRAI EP 1991-200579 19910318  
 DT Utility  
 FS Granted  
 LN.CNT 939  
 INCL INCLM: 435/197.000  
 INCLS: 435/691.000; 435/712.000; 435/252.300; 435/252.310; 435/320.100;  
 435/172.300; 536/023.200; 935/014.000; 935/029.000; 935/056.000;  
 426/656.000; 426/635.000  
 NCL NCLM: 435/197.000  
 NCLS: 426/635.000; 426/656.000; 435/069.100; 435/071.200; 435/252.300;  
 435/252.310; 435/320.100; 536/023.200  
 IC [6]  
 ICM: C12N009-18  
 ICS: C12N015-55; A23K001-00  
 EXF 435/69.1; 435/71.2; 435/197; 435/252.3; 435/252.31; 435/320.1;  
 435/172.3; 536/23.2; 935/14; 935/29; 935/56; 426/656; 426/635  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 44 OF 47 USPATFULL on STN  
 AN 94:93243 USPATFULL  
 TI Cloning and expression of xylanase genes from fungal origin  
 IN van den Broeck, Henriette C., Wageningen, Netherlands  
 de Graaff, Leendert H., Arnhem, Netherlands  
 Hille, Jan D. R., Bergen op Zoom, Netherlands  
 van Ooyen, Albert J. J., Voorburg, Netherlands  
 Visser, Jacob, Wageningen, Netherlands  
 Harder, Abraham, Berkel en Rodenrijs, Netherlands  
 PA Gist-Brocades, N.V., Delft, Netherlands (non-U.S. corporation)  
 PI US 5358864 19941025 <--  
 WO 9201793 19920206 <--  
 AI US 1992-842349 19920427 (7)  
 WO 1991-NL137 19910724  
 19920427 PCT 371 date  
 19920427 PCT 102(e) date  
 PRAI EP 1990-2020205 19900724  
 DT Utility  
 FS Granted  
 LN.CNT 2016  
 INCL INCLM: 435/209.000  
 INCLS: 426/010.000; 426/020.000; 426/635.000; 162/087.000; 435/069.100;  
 435/200.000; 435/252.300; 435/320.100; 536/022.100; 536/023.100;  
 536/023.200; 536/023.400; 536/023.740; 536/024.100  
 NCL NCLM: 435/209.000  
 NCLS: 162/087.000; 426/010.000; 426/020.000; 426/635.000; 435/069.100;  
 435/200.000; 435/252.300; 435/320.100; 536/022.100; 536/023.100;  
 536/023.200; 536/023.400; 536/023.740; 536/024.100  
 IC [5]  
 ICM: C12N009-42  
 ICS: C12N009-24; C07H021-04; C12P021-06  
 EXF 426/10; 426/20; 426/635; 162/87; 435/69.1; 435/320.1; 435/252.3;  
 435/201; 435/202; 435/203; 435/209; 536/22.1; 536/23.1; 536/23.2;  
 536/23.4; 536/23.74; 536/24.1  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 45 OF 47 USPATFULL on STN  
 AN 94:26436 USPATFULL  
 TI Enzyme preparations with recombinantly-altered cellulose profiles and  
 methods for their production  
 IN Nevalainen, Helena, Espoo, Finland  
 Knowles, Jonathan, Helsinki, Finland  
 Suominen, Pirkko, Vantaa, Finland  
 Penttilla, Merja, Helsinki, Finland  
 Mantyla, Arja, Espoo, Finland  
 PA Alko Limited, Helsinki, Finland (non-U.S. corporation)  
 PI US 5298405 19940329 <--  
 AI US 1990-524308 19900516 (7)

RLI Continuation-in-part of Ser. No. US 1990-496155, filed on 19 Mar 1990  
which is a continuation of Ser. No. US 1987-44077, filed on 29 Apr 1987  
DT Utility  
FS Granted  
LN.CNT 1528  
INCL INCLM: 435/209.000  
INCLS: 435/069.100; 435/172.300; 435/277.000; 435/278.000; 435/252.300;  
435/200.000; 435/232.000; 935/037.000; 935/061.000; 935/064.000;  
935/068.000  
NCL NCLM: 435/209.000  
NCLS: 435/069.100; 435/200.000; 435/232.000; 435/252.300; 435/277.000;  
435/278.000  
IC [5]  
ICM: C12N015-00  
ICS: C12N015-56; C12N015-80; C12N015-90  
EXF 435/277; 435/278; 435/252.3; 435/69.1; 435/172.3  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 46 OF 47 USPATFULL on STN  
AN 93:69762 USPATFULL  
TI Molecular cloning and expression in industrial Bacillus species  
IN Sanders, Johan P. M., BV Delft, Netherlands  
Van Den Berg, Johannes A., AD Reeuwijk, Netherlands  
Andreoli, Peter M., EJ Rotterdam, Netherlands  
Vos, Yvonne J., MB Capelle a/d IJssel, Netherlands  
Van EE, Jan H., EZ Nieuwerkerk a/d IJssel, Netherlands  
Mulleners, Leo J. S. M., SV Rijen, Netherlands  
PA Gist-brocades, NV, Netherlands (non-U.S. corporation)  
PI US 5238833 19930824 <--  
AI US 1991-701596 19910513 (7)  
RLI Continuation of Ser. No. US 1987-15110, filed on 17 Feb 1987, now  
abandoned which is a continuation-in-part of Ser. No. US 1984-627589,  
filed on 3 Jul 1984, now abandoned  
PRAI EP 1983-201016 19830706  
DT Utility  
FS Granted  
LN.CNT 955  
INCL INCLM: 435/172.300  
INCLS: 435/252.310; 435/320.100; 435/069.100; 435/202.000; 435/219.000;  
435/222.000; 435/226.000  
NCL NCLM: 435/006.000  
NCLS: 435/069.100; 435/202.000; 435/219.000; 435/222.000; 435/226.000;  
435/252.310; 435/320.100; 435/454.000  
IC [5]  
ICM: C12N015-03  
ICS: C12N001-21; C12N015-75; C12N015-63  
EXF 435/202; 435/172.3; 435/320.1; 435/252.31; 435/222; 435/219; 435/226;  
435/69.1  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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(2004) on STN  
AN 94:20422 AGRICOLA  
DN IND20376497  
TI Cloning and structural organization of a xylanase-encoding gene from  
Penicillium chrysogenum.  
AU Haas, H.; Friedlin, E.; Stoffer, G.; Redl, B.  
AV DNAL (QH442.A1G4)  
SO Gene, 1993. Vol. 126, No. 2. p. 237-242  
Publisher: Amsterdam : Elsevier Science Publishers.  
CODEN: GENED6; ISSN: 0378-1119  
NTE Includes references  
CY Netherlands  
DT Article  
FS Non-U.S. Imprint other than FAO  
LA English